

CONTRIBUTION TO THE LICHEN FLORA OF URUGUAY XVI.
LICHENS COLLECTED BY MARIANO B. BERRO.

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The present paper is based upon the study of the lichens of Uruguay collected by Mariano B. Berro which are transitorily preserved in the Herbarium, Museo Nacional de Historia Natural, Montevideo. Although they are a small number of samples, the author remarks the importance of making known the results of this study supported by several main reasons: it is the oldest of all the lichens collections from Uruguay preserved in national Herbaria; the dates of his gatherings span the years 1891 and 1919. Among the collections made by Uruguayan botanist it has been only preceded by Arechavaleta's published by J. Müller Argau (1888).

While the later was collected in Montevideo, Berro's collections belongs to several zones of Uruguay including complete data such as locality, date, substrate etc.

About half of Berro's material was collected in the region of Vera in the northwestern corner of Soriano Department. The general characteristics of this zone are described in his work "Las Gramineas de Vera" (Berro 1906).

In the present paper the names of the localities have been transcribed such as recorded in the original labels. It is important to precise that the so-called Minas Department is the present Lavalleja and the locality known as Independencia in Canelones Department is nowadays La Paz City.

Hitherto four collections of Gladonia belonging to Cl. pyxidata-fimbriata complex and two species of the genus Usnea are yet unidentified. They will be motive of a next report once the study is completed.

Acarospora boliviana Magn.

SCRIANO: Cerro de Vera, on stones, March 1913.

Caloplaca subnitida (Malme) Zahlbr.

COICONIA: Colonia, on stones of a old wall, April 1913.

Candelaria fibrosa (Fr.) Müll. Arg.

SORIANO: Bizcocho, on branches of Grawoskia, 19 March 1908; Vera, on trees, March 1900; on branches, July 1919.

Cladonia aggregata (Sw.) Ach.

CANELONES: Independencia, substrate unknown, 5 May 1900.

MALDONADO: Sierra de las Lozas, on stones, 30 March 1907.

Cladonia furcata (Huds.) Schrad. var. pinnata Flörk.

MALDONADO: Cerro de las Lozas, on stones, 30 March 1907.

Cladonia sp. nova (det. T. Ahti).

CANELONES: Independencia, on stones, 5 May 1900. With fumarprotocetraric acid and several unknowns, one with chocolate brown spot in TLC. The status of this species is under further study by T. Ahti.

Everniastrum pachydermum (Hue) Hale

MINAS: Verdún, on stones, Dec. 1900.

TRÉINTA Y TRES: Yermal, on stones, Nov. 1899.

Heterodermia diademata (Tayl.) Awas.

SORIANO: on tree, Oct. 1899.

Lecidea icterica (Mont.) Tayl.

SORIANO: on soil, Oct. 1894, May 1904.

Parmelia microsticta Müll. Arg.

SORIANO: Vera, on tree, March 1894; on trunk, March 1891.

Pertusaria colorans Malme var. rochae (Räs) Magn.

SORIANO: Cerro de Vera, on sandstone, March 1913.

Physcia aipolia (Ehrh.) Hampe.

SORIANO: Cerro de Vera, on sandstone, March 1913.

Ph. alba (Fée) Müll. Arg. var. obsessa (Mont.) Lynge

SORIANO: Vera, on tree, Sept. 1901; on tree, Oct. 1899.

Ph. tribacoides Nyl.

SORIANO: Vera, on tree, March 1900.

Pseudocyphellaria aurata (Ach.) Vain.

MALDONADO: Sierra de las Animas, on stones, 7 March 1915.

Ramalina celastri (Spreng.) Krog & Swinsc.

SORIANO: Vera, on trunks, March 1901.

R. continentalis Malme

MINAS: Arequita, substrate unknown, Dec. 1900.

R. prolifera Tayl.

ARTIGAS: Cuareim, on tree, June 1901.

Teloschistes chrysophthalmus (L.) Th.Fr. var. cinereus Müll. Arg.

SORIANO: Bizcocho, on branches of Grawoskia, 19 March 1908.

T. cymbalifer (Key. & Flot.) Müll. Arg.

ARTIGAS: Cuareim, on branches, August 1901.

FLORIDA: Río Santa Lucía, 25 de Agosto, on Sebastiania, 10 April 1907.

Usnea amblyoclada (Müll. Arg.) Mot.

MALDONADO: San Carlos, on stones, 28 Dec. 1906.

MINAS: Arequita, on stones, Dec. 1900.

In a former paper (Osorio 1980) we have reported Usnea pulvinata for Uruguay supported by Swinscow and Krog's opinion (Swinscow and Krog 1976) who considered U. pulvinata and U. amblyoclada as synonyms. In a later publication (Swinscow and Krog 1979) both taxa have been considered as different species. So that the above mentioned record for Uruguay belong to U. amblyoclada; up to the present the occurrence of U. pulvinata has not been quoted for our flora.

U. densirostra Tayl.

MALDONADO: San Carlos, on stones, 28 Dec. 1906; Sierra de las Animas, on stones, 7 March 1915; Punta Ballena, on stones, 31 March 1908.

MINAS: Cerro Penitente, substrate unknown, Dec. 1900

SORIANO: Vera, substrate unknown, March 1900.

U. sulcata Mot.

SORIANO: Cerro de las Palmas, Perico Flaco, on tree March 1913.

In his work "La Vegetación Uruguaya" Berro (1901) reports Usnea hieronymi for Uruguay for the first time remarking that its vernacular name is "Yerba de la Piedra". He also mentions some of its medical uses. This paper, which was involuntarily omitted in our Catalogue (Osorio 1972), was published in 1901, however its prologue written by Berro is dated January 1899. All the Usneae reported in the present list have been collected after the Berro's paper was issued and no

specimens of U. hieronymi could be identified among them. Any comments as regards the scientific name of the saxicolous Usnea known as "Yerba de la Piedra" will be object of a next communication.

Xanthoparmelia hypopsila (Müll.Arg.) Hale

CANELONES: Independencia, on stones, 5 May 1900;
det. M. Hale.

This Xanthoparmelia, very scarcely quoted in the literature, up to the present is only known from Uruguay (Müller Argau 1887 and 1888) from collections made in the last century.

Xanthoria parietina (L.) Th. Fr.

MALDONADO: San Carlos, on Opuntia, 28 Dec. 1906.

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